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Approved For Release 2006/02/07 : CIA-RDP02T06408R001200010052-0

**PIR**



**PHOTOGRAPHIC INTERPRETATION REPORT**

**HF COMMUNICATIONS FACILITIES  
WU-LU-MU-CHI  
CHINA**

DECEMBER 1966

COPY **111**

5 PAGES

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Declass Review by NIMA/DOD

GROUP 1 EXCLUDED FROM  
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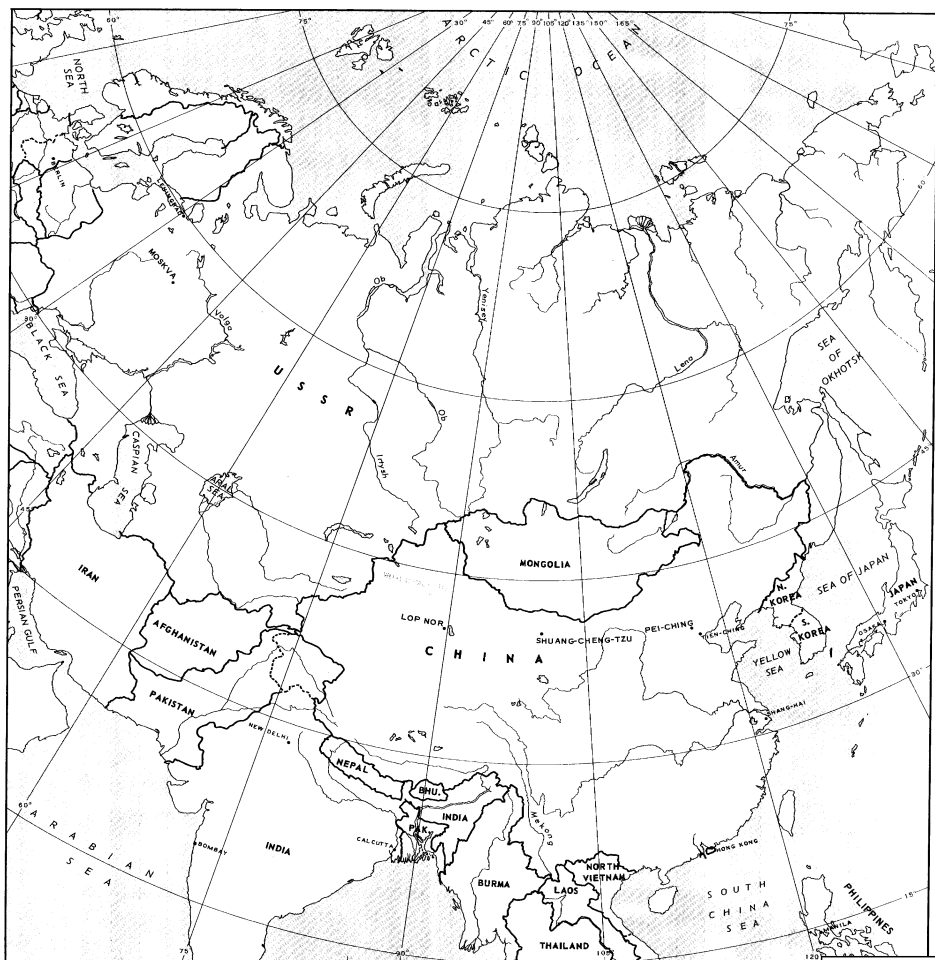


FIGURE 1. LOCATION MAP.

## HF COMMUNICATIONS FACILITIES WU-LU-MU-CHI, CHINA

A continuing analysis of [ ] reveals 3 newly identified communications facilities situated near Wu-lu-mu-chi (Urumchi), China (Figures 1 and 2). Wu-lu-mu-chi, which is approximately 200 nautical miles (nm) northwest of Lop Nor, is the capital of Hsin-chiang-wei-wu-erh Tzu-chih-chu (Sinkiang Uighur Autonomous Region). A fourth communications facility (Hu-tu-pi Radio Communications Station, [ ]) which is also located near Wu-lu-mu-chi, was identified on [ ]

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The newly identified facilities are considered to be important because of their location and size. With the exception of a facility at Kun-ming, China, they are apparently the largest that have been observed in China. Two of the 3 newly identified facilities consist of extensive antenna fields which surround a large control/support area. The third facility consists of a control/support area which is surrounded by horizontal dipoles and vee antennas. The associated antennas, cooling ponds, and evidence of dissipation lines on the rhombic antennas indicate that the primary function of these facilities is transmitting. No receiving facilities have been identified within the vicinity of Wu-lu-mu-chi.

Facility 1 (Figure 3) is located at 43-57-40N 87-13-40E, 19 nm northwest of Wu-lu-mu-chi. The antenna field consists of 11 mixed double day-night rhombics, 1 double rhombic under construction, 6 single rhombics, and a probable curtain array (Table 1). The antenna field surrounds a secured control/support area which consists of 1 large control building oriented north-south, 20 barracks/support buildings, 1 heat and power plant,

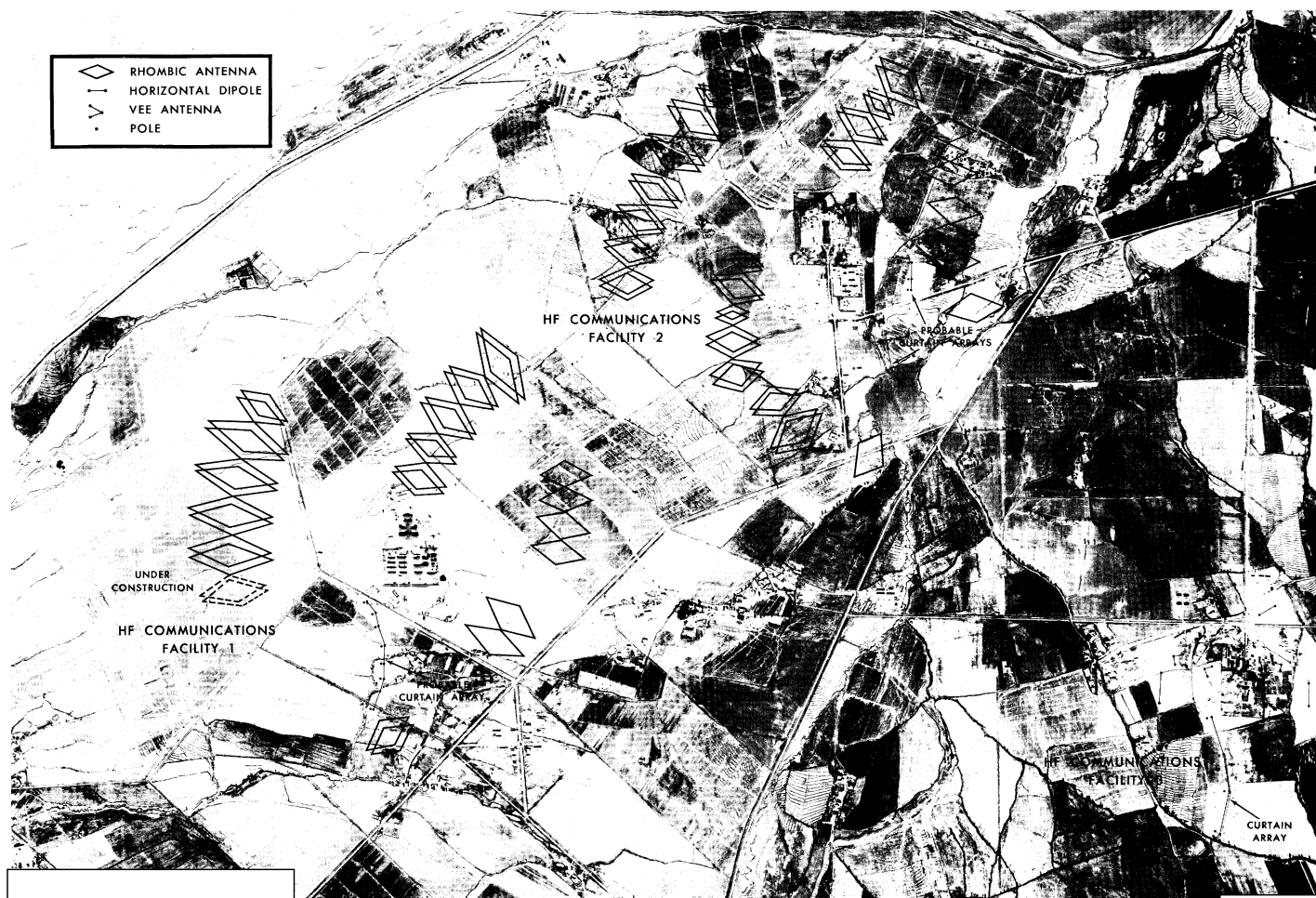
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FIGURE 2. HF COMMUNICATIONS FACILITIES 1, 2, AND 3 NEAR WU-LU-MU-CHI.

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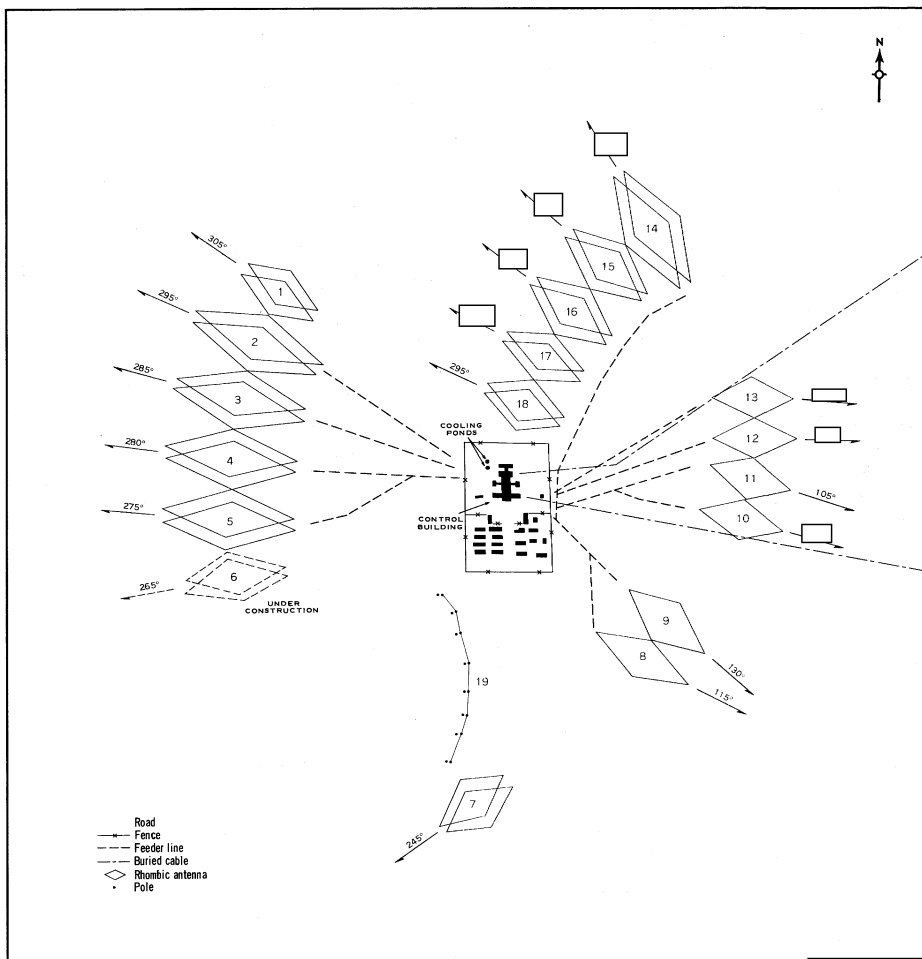


FIGURE 3. HF COMMUNICATIONS FACILITY 1.

and 2 cooling ponds. The facility was first observed on [redacted] photography from [redacted] when it was in an early stage of construction.

Facility 2 (Figure 4) is located at 43-58-30N 87-15-30E, 18 nm northwest of Wu-lu-mu-chi and 1 nm north-east of facility 1. The antenna field consists of 20 mixed double day-night rhombics, 8 single rhombics, and probable curtain arrays (Table 2). The antenna field surrounds a control/support area which consists of 1 control building oriented north-south, 15 barracks/support buildings, 1 heat and power plant, 1 water tower, and 2 cooling ponds. The facility was first observed on [redacted] photography from [redacted] when it was in a midstage of construction. No antennas were observed at that time.

Facility 3 (Figure 5) is located at 43-57-00N 87-14-40E, 18 nm northwest of Wu-lu-mu-chi, 1.5 nm east-southeast of facility 1, and 1.5 nm south-southeast of facility 2. The antenna field consists of 1 curtain array, 4 horizontal dipoles, and 4 vee antennas (Table 3). The antenna field surrounds a secured control/support area which consists of 1 control building oriented north-south, 11 barracks/support buildings, 1 heat and power plant, and 2 cooling ponds. The facility was first observed on [redacted] photography from [redacted] when it was in an early stage of construction.

Table 1. Description of Antennas, HF Communications Facility 1

Antenna No	Type	Azimuth*	Possible Correspondent
1	Rhombic	305°	Africa
2	Rhombic	295°	Africa
3	Rhombic	285°	Africa
4	Rhombic	280°	Africa
5	Rhombic	275°	Africa
6	Rhombic (under construction)	265°	Africa
7	Rhombic	245°	Africa
8	Rhombic	115°	Lan-chou
9	Rhombic	130°	Lan-chou
10	Rhombic	[redacted]	Shuang-cheng-tzu
11	Rhombic	108°	Shuang-cheng-tzu
12	Rhombic	[redacted]	Shuang-cheng-tzu
13	Rhombic	[redacted]	Shuang-cheng-tzu
14	Rhombic	[redacted]	Undetermined
15	Rhombic	[redacted]	Moskva
16	Rhombic	[redacted]	Moskva
17	Rhombic	[redacted]	Moskva
18	Rhombic	295°	Moskva
19	Probable curtain array	---	Undetermined

\*Azimuths are considered accurate to within  $\pm 10$  degrees.

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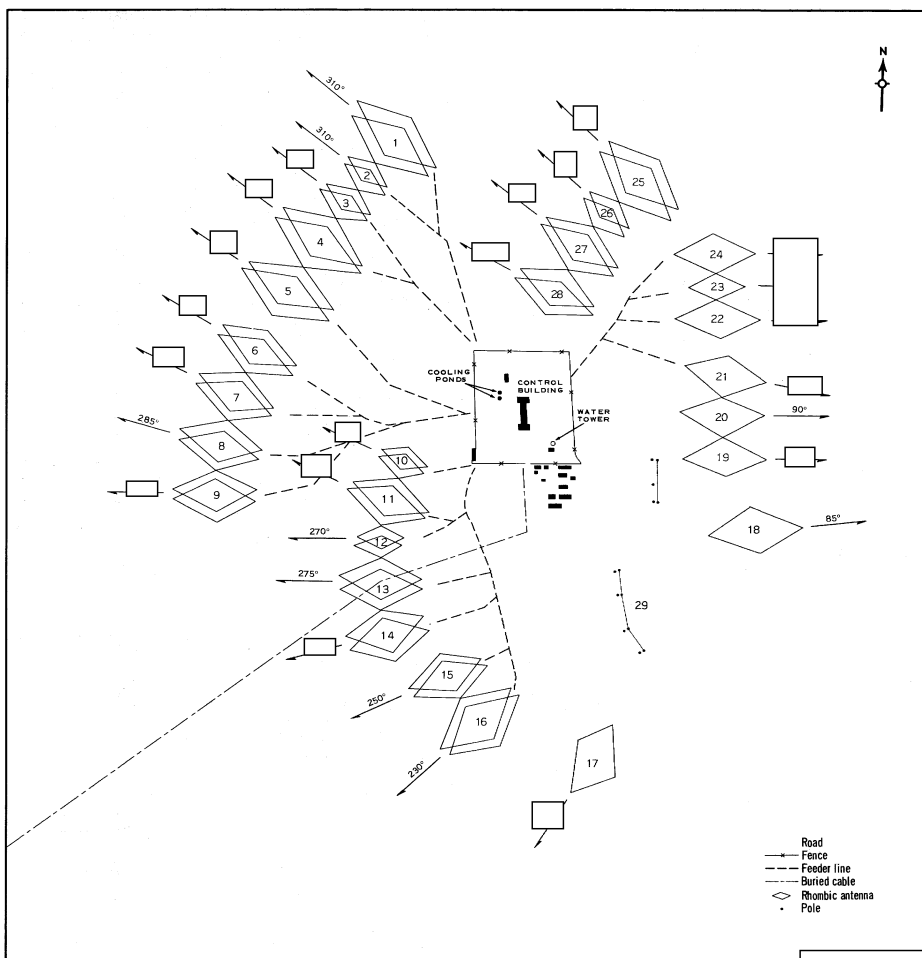


FIGURE 4. HF COMMUNICATIONS FACILITY 2.

Table 2. Description of Antennas,  
HF Communications Facility 2.

Antenna No	Type	Azimuth*	Possible Correspondent
1	Rhombic		Moskva
2	Rhombic		Moskva
3	Rhombic		Moskva
4	Rhombic		Moskva
5	Rhombic		Moskva
6	Rhombic		Africa
7	Rhombic		Africa
8	Rhombic		Africa
9	Rhombic		Africa
10	Rhombic		Africa
11	Rhombic		Africa
12	Rhombic		Africa
13	Rhombic		Africa
14	Rhombic		Africa
15	Rhombic		Africa
16	Rhombic		Africa
17	Rhombic		Undetermined
18	Rhombic		Pei-ching
19	Rhombic		Pei-ching
20	Rhombic		Pei-ching
21	Rhombic		Pei-ching
22	Rhombic		Pei-ching
23	Rhombic		Pei-ching
24	Rhombic		Pei-ching
25	Rhombic		Moskva
26	Rhombic		Moskva
27	Rhombic		Moskva
28	Rhombic		Moskva
29	Probable curtain array		Undetermined

\*Azimuths are considered accurate to within  $\pm 10$  degrees.

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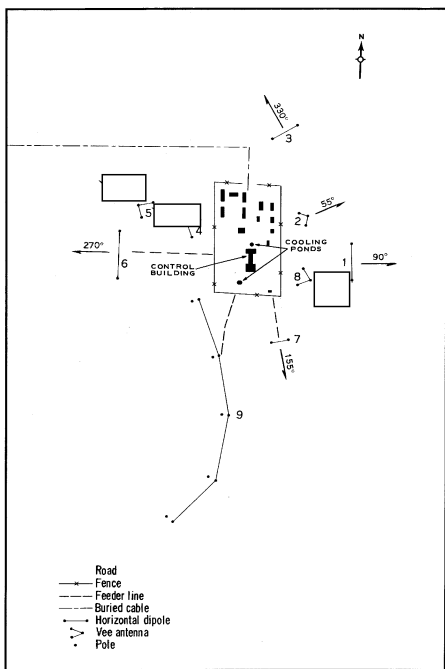


FIGURE 5. HF COMMUNICATIONS FACILITY 3.

Table 3. Description of Antennas,  
HF Communications Facility 3

Antenna No	Type	Azimuth*	Possible Correspondent
1	Horizontal dipole	90°	Undetermined
2	Vee	55°	Undetermined
3	Horizontal dipole	330°	Undetermined
4	Vee		Undetermined
5	Vee		Undetermined
6	Horizontal dipole	270°	Undetermined
7	Horizontal dipole	155°	Lop Nor
8	Vee		Shuang-cheng-tzu
9	Curtain array	---	Undetermined

\*Azimuths are considered accurate to within ±10 degrees.

#### REFERENCES

#### PHOTOGRAPHY

#### MAPS OR CHARTS

ACIC series, scale 1:200,000

#### REQUIREMENT

NSCID 87-7

#### NPIC PROJECT

11174/67

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